



**TOTAL 道达尔**  
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**SuperImpact POLYSTYRENE 5331S**

Technical Data Sheet  
High Impact Polystyrene  
Manufactured in China

## Description

- TOTAL SuperImpact POLYSTYRENE 5331S is a high impact polystyrene grade designed for compounding or any applications requiring an exceptional High Impact Strength, making it a potential alternative to ABS.
- This innovative and unique grade opens the door to new possibilities for PS applications as well as new opportunities for cost down.

## Applications

- Compounding
- Electrical and Electronic
- Product requiring High Impact

Properties	Method	Unit	Value (*)
<b>Rheological</b>			
Melt Flow Index (200°C / 5kg)	ISO 1133	g/10min	6
<b>Thermal</b>			
Vicat Softening Point 10N (T° increase = 50°C/h)	ISO 306	°C	90
Coefficient of Linear Thermal Expansion	-	mm/°C	9.1
<b>Mechanical</b>			
Notched Izod Impact Strength	ISO 180	kJ/m <sup>2</sup>	18
Tensile Strength at Yield	ISO 527	MPa	20
Elongation at Break	ISO 527	%	65
Flexural Modulus	ISO 178	MPa	1550
<b>Electrical</b>			
Dielectric Strength	-	kV/mm	150
Surface Resistivity	ISO IEC 93	Ohms	>10 <sup>13</sup>
<b>Others</b>			
Density	ISO 1183	g/cm <sup>3</sup>	1.04
Moulding Shrinkage	-	%	0.4-0.7
Water Absorption	ISO 62	%	0.06

(\*) Data not intended for specification purposes.

\*All tests have been carried out at 23°C unless otherwise stated.

\*Mechanical properties have been measured on injection molded test specimens.

\*Bulk density is approximately 0.6 g/cm<sup>3</sup>.

## General Information

- Processing condition: Temperatures during extrusion/injection should be below 240°C.
- Recommended Pre-Dry condition: 70°C for 2 hours.

Polystyrene